BOROUGH OF DARWEN.



REPORT

OF

F. G. HAWORTH,

M.B.C.M., L.R.C.S., D.P.H.,

MEDICAL OFFICER OF HEALTH,

Medical Officer to the Education Committee,

POLICE SURGEON,

FOR THE

Year ending December 31st, 1921.

DARWEN:

J. J. Riley, Printer, Bookbinder, &c., "News" Office.

MCMXXII

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"BROOKLYN," DARWEN,

FEBRUARY, 1922.

TO THE CHAIRMAN AND MEMBERS OF THE HEALTH COMMITTEE.

GENTLEMEN,

I have the honour to present to you my Twenty-Seventh Annual Report, being for the year ending December 31st, 1921.

I am, Gentlemen,

Your obedient servant,

F. C. HAWORTH,

Medical Officer of Health,

Darwen Urban Sanitary Authority.

Members of the Health Committee

1921-1922.

COUNCILLOR T. W. A. FORREST, M.B.E., J.P., MAYOR.

Chairman:

ALDERMAN W. WORTH, J.P.

Vice-Chairman:

ALDERMAN G. P. HOLDEN, J.P.

Alderman J. Cocker, J.P.	COUNCILLOR T. W. A. FORREST, M.B.E.
" F. HINDLE, C.C.	J.P., C.C.
" H. C. JEPSON.	W. JEPSON.
" Ј. Ріскир, Ј.Р.	W. Knowles.
Councillor Wm. Ainsworth, J.P.	T. LIGHTBOWN.
,, Mrs. M. Bailey.	" E. LEACH.
" Crossley St. John Broad-	,, R. Marsden.
BENT.	" J. W. Mason
" E. L. CARUS, J.P.	G. PICKUP, J.P.
" G. Butterworth, J P.	,, John B. Thornley, J.P.
" F. C. Duckworth.	,, L. Tomlinson.
" H. B. Eccles, J.P.	,, W. M. THOMPSON.
Assistant Town Clerk Sanitary Inspectors Superintendent of Scavenging Slaughter House and Meat Inspects Shops Inspector Medical Officer of Infectious Disease Matron, Infectious Diseases Hospital School Nurse	WILLIAM P. HALLIWELL, B.A. JOHN DERBYSHIRE. (South Division)—W. E. MARSDEN. (North Division)—C. R. WALSH. JOSEPH NICCOLL. OR
LADY HEALTH VISITOR	Mrs. H. H. Shawcross.
Matron, Day Nursery	Miss E. A. Bruce.

REPORT.



The Ministry of Health have decided that full reports—referred to in their circular as Survey Reports—such as are usually made from year to year, will now be normally required at intervals of not more than five years, and that during the intervening period minor reports—referred to in the circular as ordinary reports—will be all that are necessary.

AREA (Acres), 5,959.

POPULATION (1921), 38,720.

POPULATION IN WARDS.

		-	Census,
	Census,		1921
Wards.	1911.	(1	Estimated).
CENTRAL	6,698	• • • • • • • • • • • • • • • • • • • •	6,314
WEST CENTRAL	3,947		3,474
NORTH EAST	9,181		9,013
NORTH WEST	7,055		6,948
SOUTH EAST	6,882		6,850
SOUTH WEST	6,569		6,121
TOTAL	40,332		38,720

Number of inhabited houses (1921) 10,503.

Number of families or separate occupiers (1921), 10,503.

Rateable Value, £216,984 5s. 0d.

Sum represented by a penny rate, £837.

EXTRACTS FROM VITAL STATISTICS OF THE YEAR 1921.

BIRTHS—Legitimate Illegitimate		Total. 719 34	• • • • • • • • •	Male 376 16	 Female. 343
	<i>\$</i> >	7 53		234	214

Number of women dying in, or in consequence of Child-birth, from sepsis, none; from other causes, 3.

Deaths of Infants under one year of age:—Total, 53; Legitimate, 50; Illegitimate, 3.

Deaths from Measles (all ages), none.

Deaths from Whooping Cough (all ages), 5.

Deaths from Diarrhœa (under 2 years of age), 4.

Specify any unusual or excessive mortality during the year which has received or required comment:—None.

RATES PER 1,000 OF POPULATION.

						e of D	
					unc	der 1 ye	ear to
						1	,
Bir	th-rate	. Dea	uth-rat	e. De	ath-ra	te. B	irths.
1921	19.4		11.5		0.46		70
1920	21.5		13.0		0.58		93
Mean of 10 years, 1911-1920	15.7		14.9		0.77		110
Increase or Decrease in 1921	on :-	-					
Previous year	-2.1		-1.5		-0.12		23
Ten Years' Average	+3.7		-3.4		0.31		40



MARRIACES.

The number of Marriages solemnized in Darwen during the year ending December 31st, 1921, was as follows:—

Church England	189
Nonconformist Places of Worship	179
Total	368
	, , ,

This means that 736 people were united in the bonds of wedlock, and is at the rate of 19.00 per 1,000 of the population, as compared with 27.25 per 1,000 in the previous year.

Year.	Birth	ns.	Deat	ths.	Marriages.		
	Number	Rate.	Number	Rate.	Number.	Rate.	
1912	690	16.99	563	13.86	710	17.5	
1913	738	18.08	579	14.18	716	17.5	
1914	765	18.64	595	14.49	594	14.4	
1915	666	16.23	590	15.21	742	19.1	
1916	562	13.91	545	14.68	510	13.7	
1917	427	11.18	490	14.29	390	21.3	
1918	353	9.58	692	21.08	472	12.8	
1919	495	12.61	520	13.80	994	25.3	
1920	845	21.56	510	13.01	1068	27.2	
1921	753	19.44	448	11.57	736	19.0	
Average 10 Years	629	15.82	553	14.61	693	18.7	



BIRTHS.

The number of Children Born during the year was: Males 392, Females 361, making a total of 753; being 92 less than in the previous twelve months, and at the rate of 2.12 per 1,000 lower than in 1920.

The Birth Rate for the year was 19.44 per $1,0\overline{00}$. In July there was the highest birth rate, viz. : 22.31 per 1,000; and in November it was the lowest, the figure being 14.25 per 1,000.

TABLE showing the Estimated Populations, Number of Births, and the Birth-Rates for the Darwen Sanitary District for the last Ten Years.

Year.	Estimated Population at the Middle of Each Year.	Total Births.	Birth-Rate
1912	40,611	690	16.99
1913	40,824	738	18.08
1914	41,038	765	18.64
1915	41,038	666	16 23
1916	40,381	562	13.91
1917	38,210	447	11.18
1918	36,814	353	9.58
1919	39,252	495	12.61
1920	39,182	845	21.56
1921	38,720	853	19.44

Average for the last 10 years, 15.82.

BIRTH-RATES IN THE VARIOUS WARDS.

Year.	C.	W C	N.E.	N.W.	S.E.	S.W.	Borough.
1912	16 49	17.94	18.69	16.00	14.86	17.90	16.99
1913	17.15	17.14	20.95	15.16	18.22	18.75	18.08
1914	19.91	19.62	18.65	16 43	19.26	18.68	18.64
1915	16.59	13.33	18.65	12.93	19.98	15.13	16.23
1916	14.10	9.97	14.98	11.05	14.64	17.26	13.91
1917	11.82	10.54	13 74	8.75	10.27	11.11	11.18
1918	8.74	9.81	10.15	9.08	9.54	10.17	9.58
1919	12.30	12.36	14 74	9.39	14.17	12.27	12.61
1920	22.43	18.71	24.90	17 51	22.76	21.23 -	21.56
1921	22.53	18.13	21.74	14.82	20.14	18.29	19.44
Averages for	10.10			1000			
10 Years.	16.18	14.75	17.71	13.02	16.38	16.07	15.82

ILLEGITIMATE BIRTHS.

Thirty-four Children were born out of wedlock during the year. This gives a rate of 4.52 per cent. of total births. Since 1912 the average annual number is 23.

The rate per cent. of Births averages 3.85, and 1916 is the highest with 4.80.

The Infantile Mortality Rate of Illegitimates for the year was 88 and the average for the last 10 years was 136.

TABLE showing number of Illegitimate Births, etc., during the past Ten years.

Year.	Number of Births.	Rate % of Total Births.	No. of Deaths under 1 Year.	Death-rate per 1,000 Births.
1912	18	2.61	3	167
1913	21	2.85	5	238
1914	28	3 66	2	71
1915	20	3.00	2	100
1916	27	4.80	0	0
1917	17	3.96	2	118
1918	16	4.53	3	188
1919	22	4 44	5	227
1920	35	4 14	. 6	171
1921	34	4.52	3	88
				200
Average	23	3 85	3	136

ILLECITIMATE BIRTHS.

	Number	Percentage of Births.
JANUARY	6	10.17
FEBRUARY	1	1.47
MARCH	1	1.58
APRIL	3	5.26
MAY	2	2.86
JUNE	1	1.59
JULY	1	1.39
AUGUST	2	3.28
SEPTEMBER	3	4.61
OCTOBER	2	3.17
NOVEMBER	1	2.17
DECEMBER	11	16.66
	34	4.52

BIRTHS IN WARDS, 1921.

	Cen	tral.	We	est- tral.		rth- ist.	Noi We	rth-		ith- ist.		ith-	То	tal.	Rate per 1,000 estimated Population
	M.	F.	M.	F.	M.	F.	Μ.	F.	M.	F.	М.	F.	Μ.	F.	
January February March April May June July August September October November December	6 7 7 5 11 3 12 3 7 6 5 3	7 8 6 5 6 6 5 4 5 0 3 11	5 3 2 4 3 2 2 3 4 1 3 4	3 1 3 3 6 1 3 4 1 1	5 10 9 10 9 11 12 6 8 4 6	7 8 9 10 9 10 12 9 4 6 4	2 2 4 3 4 7 4 3 7 6 1 6	7 3 4 4 5 3 5 5 2 7 5 4	5 9 2 4 10 5 6 10 9 7	6 6 8 1 4 5 4 3 2 9 4 7	2 4 6 5 7 5 4 2 4 3 5 7	4 7 3 4 1 3 9 5 5 9 2 6	25 35 30 31 44 31 38 29 38 33 25 33	34 33 26 26 32 34 32 27 30 21 33	18.28 21.07 19.52 17.66 21.69 19.52 22.31 18.90 20.14 19.52 14.25 20.45
	75	66	36	27	99	97	49	54	79	59	54	58		361	19.44
TOTAL	1	41	6	3	1	96	10	3	13	8	11	2	7.	53	
Population Birth-rate	6,3 22	- 1	3,4 18.		9,0		6,9 14.	- 1	6,8 20.	350 14	,	.29	38,7 19		



DEATHS.

The total number of Deaths during the year was 448; males 234, females 214; being a decrease of 62 on the previous year.

The Death Rate for the year is 11.57, a decrease of 1.44 on the previous year.

The number of Deaths of Residents in Institutions, etc., outside the district was 63, which has been added to the 385 deaths registered within the district, making a total of 448.

These Deaths are reported to me quarterly by the Registrar General, through the County Medical Officer of Health.

Eleven Deaths of Non-Residents occurred in the town during the year.

INQUESTS. There were 25 Inquests held during the year, compared with 40 during 1920. The following were the verdicts:—

	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
Accidental Death	. 18	17	14	22	20	15	16	12	17	12
Natural Cause	6	24	8	7	6	3	8	12	14	9
Suicide	4	4:	8	9	4	4	2	2	9	4
	28	45	30	38	30	22	26	26	40	25

Death-Rates per 1,000 of the Population in the various Wards of the Borough.

WARDS Population	Central 6314	West- Central 3474	North- East 9013	North- West 6948	South- East 6850	South- West 6121	Death- Rate per month
January February March April May June July August September October November December	15.20 15.20 9.50 7.60 17.10 5.70 15.20 3.80 9.50 17.10 17.10	13.81 10.36 17.27 10.36 10.36 17.27 3.45 6.90 10.36 3.45 13.81 3.45	11.98 7.98 14.64 5.32 14.64 7.98 10.65 9.31 18.63 5.32 9.31 10.65	12.08 13.81 8.63 8.63 10.36 10.36 5.18 13.81 5.18 10.36 15.54	14.01 8.75 5.25 7.00 1.75 5.25 5.25 10.51 5.25 8.75 1.75 10.51	11.76 5.88 11.76 1.96 13.72 3.92 19.60 15.68 3.92 5.88 9.80 9.80	12.70 10.22 11.77 6.81 9.91 9.60 8.67 12.08 8 36 7.43 10.86 10.86
Rate for year	$\frac{13.30}{13.30}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\frac{20.72}{12.08}$	8.46	13.72	$\frac{19.52}{11.57}$

Death-Rates in the Various Wards for the past 10 Years.

Year	C.	W.C.	N.E.	N.W.	S.E.	S W.	Borough.
1912	14.09	15,92	12.83	12.99	13,99	14.69	13,86
1913	12.33	15.12	14.22	14.76	14.79	14.14	14,18
1914 1915	$13.73 \\ 17.56$	$10.31 \\ 15.49$	$16.15 \\ 15.17$	13.19 14.54	$\begin{array}{c} +5.12 \\ 13.01 \end{array}$	16.37 15.72	14.49
1916	17.34	13,99	15.85	15.48	12,01	12,66	14,68
1917	15.35	9.80	17.68	12.88	13.01	14.26	14.29
1918	21,67	20,46	23,60	16.19	21.25	22,81	21,08
1919 1920	14.13 14.53	11.89 12.73	16.31 13.30	12.14 11.40	$12.58 \\ 13.01$	$14,32 \\ 12.80$	13.80;
1921	13.30	12.09	12.75	12.08	8.46	10.61	11,57
				70.40	10.50	34.00	14.01
Average	15.40	13.78	15,78	13.56	13.72	14.83	14.61

CAUSES OF DEATH IN DARWEN, M.B., 1921.

	Causes of Death (Civilians only).	Males.	Females.
	All Causes.	234	214
1.	Enteric Fever	Malanana	-
2.	Small Pox		
3.	Measles	_	
4.	Scarlet Fever		
5 .	Whooping Cough	2	?
6.	Diphtheria	Washington	Palameters
7.	Influenza	1	2
8.	Encephalitis Lethargica	1	1
9.	Meningococcal Meningitis	1	-
10.	Tuberculosis of Respiratory System	10	8
11.	Other Tuberculous Diseases	2	4
12.	Cancer, malignant disease	23	22
13.	Rheumatic Fever	2	in an draganian

	Causes of Death (continued).	Males.	Females.
14.	Diabetes	2	1
15.	Cerebral Hæmorrhage, etc	13	21
16.	Heart Disease	16	27
17.	Arterio-sclerosis	8	8
18.	Bronchitis	12	20
19.	Pneumonia (all forms)	23	16
20.	Other Respiratory Diseases	1	1
21.	Ulcer of Stomach or Duodenum	5	
22.	Diarrhœa, etc. (under 2 years)	3	1.
23.	Appendicitis and Typhlitis	3	1
24.	Cirrhosis of Liver	1	1
25.	Acute and Chronic Nephritis	14	13
26.	Puerperal Sepsis		Services
27.	Other accidents and diseases of pregnancy and parturition		. 3
28.	Congenital debility and malformation, premature birth	17	6
29.	Suicide	4	Splingwind
30.	Other Deaths from violence	7	4
31.	Other defined diseases	60	48
32.	Causes ill-defined or unknown	3	3
Spe	cial Causes (included above)—		
	Cerebro-Spinal Fever	Management	Mondonia
	Poliomyelitis	<u></u>	
Dea	ths of Infants under 1 year of age—		
	Total	40	13
	Illegitimate	2	1
Tota	al Births	392	361
	Legitimate	376	343
	Illegitimate	16	18

The death-rate for the year was 11.57 per 1,000, and is the lowest rate on record.

NOTIFIABLE DISEASES.

Number of cases of infectious disease notified, number of deaths from these diseases, number of cases removed to hospital, and deaths in hospital during the year 1921:—

			C/	SE	S	No	TI	FH	ŒD.	,					Hosp	ital.
T	Total					Y		RS						Total	Total	Deaths in Hospital
DISEASE.	Cases at all Ages.	Un- der 1	1 to 2	2 to 3	3 to 4	4 to 5	to	to	to	to	to	to	and over	Deaths	Cases removed to Hospi tal.	of persons belonging to district.
**************************************				-		_	_			-	-	-				
Smallpox Diphtheria and	•••		• • •												•••	• • •
Membranous Croup	10					2	-8									
Erysipelas	5		• • •									4	• • •		10	
Scarlet Fever	24	• • •			• • •	J	12	ь	ಶ	1	1				12	
Enteric Fever (includ-	1															
ing Paratyphoid) Puerperal Fever	1	• • •	• • •			• • •	• • • •	1		1				• • • •		
Cerebro-Spinal	7		• • •		• • •	• • •				1				• • •		• • •
Meningitis	1		1]					1		
Poliomyelitis	1		1	i		• • •										
Ophthalmia	-			-		• • •								•••	• • •	
Neonatorum		}		l					 		l	.				
Malaria	3									1	2	2				
Trench Fever	1									1 1	 	1		1		
Dysentery	1									. 1	l	.				
Encephalitis															1	
Lethargica	3			 				1	1	1	J	.		2		
Acute Primary Pneumonia																
Acute Influenzal Pneumonia	7		 				1			. 4	-	2	2	. 1		
*Pulmonary Tuber-																1
culosis—Males	1									. 1		l ē	1	10	7	4
Females	10								. 5	5 2	2 1		1	8	8	2
*Other forms of Tuber-											1.					
culosis—Males	6	1					2	1 1	1	• -		١		2		• • •
Females	8						1	2]]	1 2	4			4	1	• • • •
†Measles and German	- 0			1.												
Measles	1	2	1		2						.					• • •
†Whooping Cough					$\cdot \cdots $			• • • •	.	$\cdot \cdot \cdot$	$\cdot \cdot \cdot$			5		• • • •
†Diarrhea, &c.																
(under 2 years)				.	• • • •			• •	$\cdot \cdot \cdot$		$\cdot \cdots$			• • • •	• • •	• • •
†Chicken-pox	• • • •				• • • • •			• • •	• • •	.	.					
†Any other diseases																
notifiable in your																1
district, specify		• • • •		$\cdot \cdots$			• •		.	-	.					•••
							1		_		-					
					1		1									
Totals	102	3		1 6	2 2	2	33.	1 1:	2 10	011	6 8	8 1	3 1	34	28	6
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					1		1	1	-		1					

^{* (1)} Specify the ratio of non-notified tuberculosis deaths to total tuberculosis deaths?—8.3 per cent.

⁽²⁾ Add a note as to the efficiency of notification of tuberculosis in the district, and the action taken (if any)?—I will bring any cases not notified before my Committee. I think cases here are fairly efficiently notified.

- †State whether any of these diseases are compulsorily notifiable in your district. If so, which, and for what period?—Measles and German Measles. Indefinite.
- Specify any causes of sickness and invalidity which have been specially noteworthy in the district during the year. (This should include information obtain from local general practitioners).—None.
- No. of times School Closure adopted for—Scarlet Fever, Nil; Diphtheria, Nil; Measles, Nil; Whooping Cough, Nil; Chicken-pox, Nil; Influenza, Nil; Any other Diseases (specify same), Nil.
- No. of Special Reports made under Art. XIX. (15 and 16) Sanitary Officers' Order, 1910?—Four.

Sixteen cases of Tuberculosis were sent to various sanatoria. Seven of these were discharged before the end of the year, with the following results:—

In 1 case Improvement.

- ,, 3 cases No change.
- ,, 1 case Worse.
- ,, 2 cases Dead.
- ,, 1 case Fit for full work.
- ,, 2 cases Not fit for work.
- " 2 cases Fit for light work.

The Consumptive Patients from Darwen were sent to the following institutions:—

Elswick Sanatorium, Elswick.
Burnley Sanatorium, Burnley.
High Carley Sanatorium, Ulverston.
Bull Hill Sanatorium, Darwen.
Leasowe, Cheshire.
Bowden, Cheshire.
Peel Hall, Little Hulton.
Luneside Sanatorium, Lancaster.
Meathop Sanatorium, Grange.
Shelf Sanatorium, Halifax.
Eastby, near Liverpool.

During the year 59 patients were sent by the County Committee to Bull Hill Sanatorium.

Owing to the decoration of the premises the Sanatorium was closed from the 31st August to the 24th October, 1921, after which date female patients were first admitted.

Table showing the number of Pathological Specimens which have been sent for examination to Professor Delépine, Public Health Laboratory, Victoria University, Manchester.

YEAR.		Diph	theri	a.	Typhoid Fever.					bercu Sputi		Cerebro-Spinal Fever. Spinal fluid Swabs.					
	Posi- tive.	Nega- tive.	Doubt ful.	Total	Posi- tive.	Nega- tive.	Doubt ful.	Total	Posi- tive.	Nega- tive.	Total	Posi- tive.	Nega- tive.	Total	Posi- tive.	Nega- tive.	Total
1911	6	8	• • • •	14	4	7		11	2	9	11						•••
1912	7	4		11		• • •	• • •	• (•	7	11	18			•••	•••		
1913	8	8		16	1	7		8	28	33	61						•••
1914	4	9	1	14	6	2		8	65	57	122						P#1
1915		12		12	2	4		6	5 8	60	118	1	• • •	1		2	2
1916	6	7		13	1	4	1	6	74	50	124		1	1		3	3
1917	8	16	1	25	1	8		9	56	64	120			•••			•••
1918	4	4	1	9	2	3		3	42	76	118						• • •
1919	7	8	1	16		• • •			34	59	93		• • •				•••
1920	8	11	1	20	2		• • •	2	38	48	86						• • •
1921	9	20		29	1	4	•••	5	10	21	31		•••	•••			•••

ZYMOTIC DEATH RATE.

1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1960	1901	1902	1903	1904	1905
3.0	1.9	2.0	1.2	1.7	1.9	2.2	1.1	2.1	2.2	1.6	2.08	2.34	2.90	2.14	1.03	0.76	2,07	1.00
		. ——																
1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	9		
1.14	0.69	0.76	1.10	0.51	1.51	0.86	0.27	0.44	1.42	0.54	0.32	0.42	0.19	0.12	0.12			

Notification of Infectious Diseases in each Ward, and for each Month of the Year 1921.

	.fstoT	14	10	-1	12	13	10	ಣ	ro	4	16	1~	9	102
1	Trench Fever,	:		:	:	:	:	:	:	:	:	;	:	
	Malaria		:	:	_	:	:		:	:	:	-		7
	Euceph. Lethar.	7	:	:	:	:	_	:	:	:	:	:	:	ಣ
	Pneumonia			C	:	ಅ .	:	:	:	:	:	:	:	1
	Poliomyelitis.	:		:	:	:	:	:	:	:	:	:	:	H
H.	Dysentery.	:		:	:		:	:	:	:	:	:	:	
00	Tuberculosis,	67	c)	63	4	4	p(ಣ	2		:	ಣ	31
0	Erysipelas.	:	:		:	_	:	*	:	:	:	63		5
BOROUGH	Meas, & G. Meas.	4		:	ಣ	_	7	•	:	:	67	:	•	13
m	Puerperal Fever.	:	:	:	:	:	:	~		•	:	:	:	
	CerSpinal Men.	•	•	•	:	:	_		•	:	:	:	:	
	Typhoid Fever.	H	:	:	:	-	:	:	:	:	:	:	:	
	Diphtheria.	•	\dashv		Ø	· ന	•	_	:	:	O	:	:	91
	Scarlet Fever.	ಣ	ಣ		67	;	:	:	67	67	5	4	67	42
	Pneumonia	-		C1		30					:	:	•	1-
	Poliomyelitis.	:		:	:	:	•	:	:	:	:	*	:	
H	Malaria	· :	•	:	-	:	:	:	:	:	•	:	•	-
SOUTH- WEST.	Tuberculosis.	:	:		:	:	:	:	:	:	_	:	1	60
OE VE	Erysinelas.	:	:	-	:		:	•	:	:	:	:		m
S	Meas. & G. Meas.	1 4		:	_	:		:	:	•	:	:	:	9
	Diphtheria.	:	:	:	:	22	:	:	:	:	7	:	:	ಣ
	Scarlet Fever.			:		:			:	:	:	62		ಣ
	Enceph. Lethar.	0.7	:	:		:	:	:	:	:	:	:	:	2
TH.	Malaria	-	:	:	:	:	:	:	:	:	:		:	21
JT	Tuberculosis.			:	ಣ	:	•		:	:	ಣ	:	C7	101
SOUTE EAST.	Diphtheria.	1		:		:	:		:	:	:	:	:	m
S.	Scarlet Fever.	-		:	:	:	:	:	-	:	:	:		1 00
1	Dysentery.	:	:	:	:		•	:	:	:	:		:	
T.	Enceph. Lethar.	<u> :</u>	•	:	<u>:</u>	:		:	<u>:</u>	:	:	:	:	
R.I	Tuberculosis.	!		<u>:</u>	:	<u>:</u>	:	<u>:</u>		:		<u>:</u>	<u> </u>	1 00
NOR'TH WEST.	Meas. & G. Meas.	:	:	:	<u>:</u>	<u>:</u>		<u>:</u>	<u>:</u>	:		<u> </u>		63
4	Scarlet Fever.			:			:	:		2			CJ	1-
	Trench Fever	:		:	<u>:</u>	:	<u>.</u>	•	:			:	:	
HH.	Tuberculosis.		:	_ 	:	F	•	:	prod			:	:	9
ORTH EAST.	Erysinelas.	:	<u>:</u>	<u> </u>	<u>:</u>	:	_ :				_ :	63		63
J.R.	Meas. & G. Meas.]:			:		*	•		:			<u> </u>	07
Z	Diphtheria.				:	:	•	:	:	<u>:</u>			<u> </u>	67
	Scarlet Fever.										62		:	1 00
	Tuberculosis.	!	:	:		6,1			<u> </u>	<u>:</u>	-:	•	:	4
T-X	Meas. & G. Meas.		:	:		<u> </u>		<u>:</u>	:	:	<u> </u>	:		
WEST UNTRA	CerSpinal Men.		•		<u> </u>	<u>:</u>		:	:	<u>:</u>	<u> </u>	:	:	+-
N Z	Typhoid Fever.		:				<u> </u>	<u>:</u>	<u>:</u>	:	<u>:</u>	·	:	31
WEST- CENTRAI	Diphtheria.	1 :						:	:	:	.:		<u>:</u>	10
	Scarlet Fever.	-						<u></u>						10
	Tuberculosis.		:	<u>:</u>	:		:	•				:	:	67
Į.H.	Meas. & G. Meas.		print	:		:	:	•	<u>:</u>	•	:	:	:	
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	Scarlet Fever.		2		:	:	:	:	:	:	:	:	:	
•	MONTHS.	IANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
1							•							

RETURN OF VACCINATION FOR DARWEN, 1921.

MOI	NTHS.	Successful Vaccina tion.	Died Unvac- cinated.	Insus- ceptible.	Ex- empted.	Post-poned.	Re- moved out of Town and Traced.	Re- moved and Cannot Trace.	Unac- counted for.	Successfully vaccinated each quarter.
	nary	23	3	0	32	0	0	1	0	
Febr	ruary	22	7 5	0	39	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	0	0	1	61
Marc	ch	16	9	0	41	$\frac{0}{2}$	0	0	0	OI
Apri	ıl	17	6	0	37	0	0	0	0	
May		20		0	44		0	0	0	63
June	e	26	5 5	0	31	0	1			05
	·	23		0	44		0	0	0	
	ust	16	5	0	38	0	1	0	1	~~
	ember	20	5 3 5	0	41	0	0	0	1	59
	ber		5	0	31	2	0	0	2	
•	ember	11	1 3	0	34	0	0	0	0	10
Dece	ember	14	3	0	26	0	0	0	13	48
		231	49	0	438	4	2	1	18	231

VACCINATION.

Year	Births	Successfully Vaccinated	Rate per cent Vaccinated
1912	690	204	29,57
1913	738	232	31.44
1914	765	271	35,42
1915	666	209	31,38
1916	562	200	35,58
1917	427	153	34,43
1918	353	116	32,86
1919	495	134	27.07
1920	845	195	23.07
1921	753	231	30.67

SUMMARY OF NURSING ARRANGEMENTS, HOSPITAL AND OTHER INSTITUTIONS AVAILABLE FOR THE DISTRICT.

Professional Nursing in the Home.

Arrangements in the district for :—(a) General Nursing. There is no Institution in the District, but there is a District Nursing Association and the Council make a grant of £10 per annum for general nursing. (b) For infectious diseases, e.g., Measles, etc., a grant of £50 is made.

About six District Nurses are employed by the Association.

Mr. J. Pomfret, financial secretary to the District Nursing Association, has kindly supplied me with the following particulars:—

		Gross	Inco	ome.	N	let. Ex	pen	ditur	e.
		£	s.	d.		£	s.	d.	
1920	• • • • • • • • • • • • • • • • • • • •	2,131	12	1		1,552	9	5	
1921		2,453	19	9		2,004	18	11	

An Orthopædic Clinic for treatment of cases has been established in connection with this Association.

The Blackburn and East Lancashire Royal Infirmary is an Institution standing at the Southern end of the neighbouring Borough of Blackburn.

Every case sent from Darwen is admitted.

The Secretary, Mr. Nathan A. Smith, supplied the following information of patients from Darwen treated in the Institution.

	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
In-Patients	221	242	242	259	281	247	-276	345	35 6	360
Out-Patients	449	460	498	565	621	623	663	722	700	756

Based upon the ordinary expenditure for the year, the Cost of Treatment of these Patients was £3,320.

Midwives.—None employed by the Local Authority.

On the County Council Register there are 13 Midwives practising in the Borough.

CHILD WELFARE WORK.

One Health Visitor (whole-time) employed by Council. There are two Maternity and Child Welfare Centres established, and also one Day Nursery. One Centre is held at Hanover Street on Tuesdays, 2-30 to 4 p.m., and the other on Wednesdays, 2-30 to 4 p.m., at School Street.

Maternity and Child Welfare.

HEALTH VISITOR'S OFFICE,

43, BOLTON ROAD, DARWEN.

Dr. F. G. Haworth,

Medical Officer of Health.

Sir,— The following is a brief report of my work as Health Visitor during the state of the stat	ing the
year 1921:—	
First Visits	431
Second and subsequent visits	1111
Visits paid to expectant mothers	130
Total	2278
The following statistics were obtained on my first visit:—	
Feeding—	
Breast	202
Bottle	177 52
Diedst and Dottie	
	431
Types of Bottles used—	
Bottles without tubes	117
,, with Glass tubes	63 49
,, ,, Rubber tubes	49
	229

Foods—	
Cow's Milk (undiluted)	33
,, ,, and Water	25
,, ,, and Barley Water	22
,, ,, (Citrated)	9
Nestle's Milk	20
Dried Milk	108
Patent Foods	12
	229
MATERNITY AND CHIED WELFARE CENTREC	
MATERNITY AND CHILD WELFARE CENTRES.	
Number of Names on Register—	
School Street Branch	1026
Hanover Street Branch	101
Babies specially examined by the Medical Officer of Health—	
Medical Officer of Health	346
Babies referred for treatment to family medical doctor	50
Average Weekly Attendance of Expectant Mothers—	
School Street Branch	18
Hanover Street Branch	1
Average Weekly Attendance of Mothers—	
School Street Branch	120
Hanover Street Branch	18
Average Weekly Attendance of Children—	
School Street Branch	125
Hanover Street Branch	18

On Saturday, December 17th, the Mayor and Mayoress (Councillor and Mrs. Forrest) provided tea and afterwards an entertainment in the Lecture Hall, Free Library, for mothers and babies attending Welfare Centres and Day Nursery.

I am, Sir,

Yours obediently,

H. H. SHAWCROSS,

Health Visitor.

NOTIFICATION OF BIRTHS ACTS.

Table showing the number of Births Notified during 1921.

	Male.	Female.	Total.	Stillborn.
JANUARY	27	35	62	1
FEBRUARY	32	31	63	6
MARCH	33	36	69	3
APRIL	38	32	70	2
MAY	38	22	60	4.
JUNE	29	36	65	3
JULY	40	3·2	72	1
AUGUST	40	37	77	8
SEPTEMBER	32	26	58 1	3
OCTOBER	3.1	29	60	3
NOVEMBER	21	25	46	0
DECEMBER	34	39	$\overline{7}3$	5
•	395	380	775	39
,, ,, Parents ,, ,, Midwives an ,, ,, Parents and ,, ,, ,, ,, ,, ,, Others	nd Medical Medical Midwives	l Men		14 6 20 1 1 0
Total				775

All Births were notified with the exception of 11, or 1.43 per cent. of the total.

Births visited after receipt of Notifications	431
Births re-visited after receipt of Notifications	1111
Visits to expectant mothers	130
Visits to children over 1 year and under 5 years	606

Table showing Births Notified, Visits, etc.

		Births N	Notified.			s not ified.	Bir Vis		
Year.	Males,	Females	Total,	Still- born.	No.	Prose- cutions.	No.	of Total	Births Revisited
1912	373	336	709	45	10	0	465	65.6	587
1913	407	366	773	46	12	0	351	45.4	560
1914	390	404	794	41	9	0	428	54.2	537
1915	343	338	681	33	12	0	432	63.4	576
1916	272	292	564	27	9	0	421	78.2	596
1917	224	204	428	20	8	0	397	92.8	1370
1918	180	168	348	19	11	0	320	91.9	1477
1919	266	273	539	34	3	0	442	82.0	1294
1920	448	432	880	58	6	0	709	80.5	1054
1921	395	380	775	39	11	0	431	55.6	1111

DEATHS UNDER ONE YEAR OF ACE.

Year	Premature Birth	Convulsions	Bronchitis & Pneumonia	Diarrhœal Diseases	Whooping Cough	Measles	Inanition	Congenital Defects	Other Causes	Total	Rate per 1000 Births
1912	13	4	20	6	10	3	9	4	19	8 8	127
1913	17	1	20 20	12	1	2	18	6	17	94	127
1914	16	6	21	10	2	• • •	14	5	17	$\frac{91}{75}$	119
1915	14.	3	18	7	6	4	5	1	17	75	112
1916	13	2	9	$\frac{2}{5}$	2	1	4	3	15	51	91 89
1917	9	1	14		1	• • •	4	• • •	16	40	89
1918	3		4	2		3	1	1	12	26	74
1919	15	2	11	1	1	• • •	8	8	11	57	115
1920	18	1	12	1		• • •	15	3	29	79	93
1921	12	1	11		1		3	7	18	53	70

Table showing Infantile Mortality in the Various Wards.

		0		-			
Year.	C.	W.C.	N.E.	N.W.	S.E.	S.W.	Boro.'
1912	82	155	110	102	165	128	127
1913	105	162	135	145	157	90	127
1914	98	128	122	123	170	99	119
1915	127	151	128	94	57	112	112
1916	109	25	140	107	5 9	55	91
1917	164	77	76	79	59	104	89
1918	38	57	95	63	133	34	74
1919	154	42	108	185	73	131	115
1920	84	111	114	77	98	68	93
Average for 9 yrs.	100	100	114	108	108	91	105
1921	63	47	97	87	50	53	70

MATERNITY AND CHILD WELFARE.

Nurse Shawcross, the Health Visitor, has done good work as usual, the two Centres have been in operation under the same conditions as before; these are not perfect and I hope to make fresh arrangements which will facilitate the work and make it more complete. It is proposed in addition to weighing babies, to give short addresses to the mothers on subjects appertaining to the health and the rearing of babies. The mothers have appreciated these lectures in the past and valued highly the information embodied in them.

The attendance of Mothers and Babies during the year reached such high figures that we were obliged to stop the supply of tea and cakes. The Ladies' Committee has attended as before and given very valuable help. When the work of investigating applications for milk was added to their other duties, it was found inconvenient to continue the teas, hence the break.

An indication of the growth of the Centres is given in the Nurse's report showing an increase at the Library Centre of 286, and at Hanover Street 30, total 316.

The work has become so great that it cannot be done full justice in the time at present allowed. With fresh quarters, which are within practical view, we shall give two or three afternoons each week so as to divide the numbers. At the time of writing, these quarters have been secured, and the babies are stripped before being weighed, bringing greater accuracy into the work.

The number of expectant mothers in attendance is increasing slowly but not at the rate I would like to see it grow. I repeat my regret that some medical men still advise mothers to put their babies from the breast to the bottle on too flimsy an excuse.

The year so far has been disastrous as regards work, consequently the applications for free milk and Glaxo have been high. Rigid enquiries are still made into all the circumstances.

The general Death-rate was 11.57 per 1,000, being the lowest on record.

The Infantile Death-rate was 70 per 1,000 births, also the lowest, and is a reflex of the work which has been, and is being done in this direction.

We have one Day Nursery situated in Hanover Street.

There is no Institutional provision for unmarried mothers, illegitimate infants, and homeless children, in the town.

There is one School Clinic, established and maintained by the local Education Authority.

At 20, Railway Road, Darwen, there is a Tuberculosis Dispensary, under the direct control of the Lancashire County Council, where patients attend for examination once each week.

Venereal Diseases are treated at Blackburn Royal Infirmary.

The Local Authority has instituted a scheme for the supply of milk for necessitous infants and expectant and nursing mothers.

HOSPITAL ACCOMMODATION.

For Smallpox:—Farm House, 2 beds.

For other Infectious Diseases:—Scarlet Fever 1 block, 20 beds, good; for Typhoid Fever 8 beds, very good.

The Typhoid Fever block is at present used as a Tuberculosis Hospital by the Lancashire County Council.

There is no hospital accommodation (locally) for the treatment of maternity cases, or for children's ailments.

DISINFECTION.

The number of houses disinfected during the year was 91.

Infected bedding was removed from 29 houses for disinfection to Bull Hill Hospital and treated with Superheated Steam in the Washington Lyons apparatus.

LIST OF BEDDING DISINFECTED DURING 1921.

Beds	Mattresses	Bolsters	Pillows	Quilts	Blankets	Sheets	Suits of Clothes	Carpets	Rugs	Curtains	Cushions	Shawls	Sundries
31	4.	23	38	21	38	14	0	0	0	0	2	0	57

AMBULANCE FACILITIES.

For the removal of Infectious cases we have one horse-drawn ambulance. For non-infectious and accident cases a motor ambulance (loaned by the British Red Cross Society) is available, and there is also one horse-drawn ambulance.

LABORATORY WORK.

The number of Bacteriological Examinations is as follows:—Blood 5; Sputum 31; Throat Swabs 29; Others 1.

Under the Diphtheria Anti-toxin Order of 1910 a supply of Anti-toxin is kept at the Health Office, and the amount used by local practitioners during 1921 was 22,000 units. No other Sera or Vaccines were used.

SANITARY ADMINISTRATION. WATER SUPPLY.

The water is collected mostly from Moorland, and is of good quality.

During the year I caused four samples of Town's water to be submitted for analysis to the County Analyst. Two of the samples were taken direct from the reservoirs and the other two from taps in the town. The following are copies of the results of analysis:—

To Dr. F. G. Haworth,

Medical Officer of Health, Health Offices, Darwen.

I have analysed the two Samples of Water received from you, by rail, on the 9th day of May, 1921, with the following results expressed in parts per 100,000.

Mark or denomination of Sample		S	Bunnyhurst
	Earnsdale		Hey
	Reservoir.		Reservoir.
Total Solids in Solution	10.8		8.0
Oxygen absorbed from Permanganate in 15 mins	.043		.001
Oxygen absorbed from Permanganate in 3 hours			
Ammonia	.005		.003
Albuminoid Ammonia	.010		.002
Nitrogen as Nitrates	Absent.		Absent.
Nitrogen as Nitrites	Absent.		Absent.
Combined Chlorine	1.6		1.7
Total Hardness	4.4		3.8

These are excellent waters for all domestic and manufacturing purposes (except for brewing, for which hard water is preferred). There is no ground whatever for the idea that these waters would produce dyspepsia. It is supposed by some that a very hard water may occasionally produce this effect, but these waters are exceptionally soft.

W. COLLINGWOOD WILLIAMS, B.Sc., F.I.C., County Analyst.

To Dr. F. G. Haworth, Medical Officer of Health, Health Offices, Darwen.

I have analysed the two Samples of Water received from you, by rail, on the 9th day of May, 1921, with the following results expressed in parts per 100,000.

Mark or denomination of Sample	Tap Water.	Tap Water.
Total Solids in Solution	11.6	8.0
Oxygen absorbed from Permanganate in 15 mins	.041	001
Oxygen absorbed from Permanganate in 3 hours	.091	003
Ammonia	.000	001
Albuminoid Ammonia	.005	002
Nitrogen as Nitrates	Absent.	Absent.
Nitrogen as Nitrites	Absent.	Absent.
Combined Chlorine	1.4	\dots 1.55

These two waters correspond very closely with the two samples from the reservoirs respectively.

W. COLLINGWOOD WILLIAMS, B.Sc., F.I.C., County Analyst.

There is no possibility of contamination in the vicinity of dwelling-houses.

There is no insufficiency.

The amount used during the year was 350,614,000 gallons; 46,670,000 being for trade purposes, the remainder for domestic use at the rate of 21.5 gallons per head per day.

The total Rainfall for the year on the Watershed was 44.96 inches, and in Bold Venture Park 47.65 inches. We had rain on 202 days.

The heaviest Rainfall was in January, with 8.48 inches, and the lowest in February, with 0.46 inches.

SCAVENCING.

The Scavenging and collection of House Refuse is efficiently carried out by the Sanitary Authority.

House refuse is burnt in a Meldrum's Destructor which is situated near the Electricity Works.

SEWACE DISPOSAL WORKS.

The Bacteriological method is the one in use for the treatment of sewage, and appears to be efficient.

The Drainage system of the town is the one known as the combined system. There has been no new development in the system during the year, apart from the necessary cleansing and repairs.

There is no area or township without proper drainage system.

The Water and Smoke tests are applied to drains.

RIVERS AND STREAMS.

No legal action has been taken regarding the pollution of streams.

BAKEHOUSES.

There are 96 Bakehouses and on the whole they are in a fairly good condition.

SLAUGHTERHOUSES.

There are two Slaughterhouses registered and also one licensed. The two registered are Public Abbatoirs. They are all in a fairly good condition.

COMMON LODGING HOUSES.

The Municipal Model Lodging House is the only common lodging house in the town, and is frequently visited and inspected by Inspector Walsh.

The average daily number of lodgers for the year was 80.76 including women, as compared with 90.02 for the previous year, a decrease of 9.26, accounted for by the depression in trade.

SCHOOLS.

The condition of the Schools on the whole is good.

DAIRIES, COWSHEDS AND MILKSHOPS.

There are 96 cowkeepers on the Registers and 17 Dairymen. Two hundred and eighteen Inspections have been made by the Inspectors during the year.

Regulations were made on the 4th April, 1898; these are enforced. The cubic capacity mentioned in the Regulations is 600 cubic feet per cow. The farm buildings are in a fairly good condition.

When necessary the veterinary surgeon is called in to inspect dairy cows.

No action has been taken in regard to tuberculous milk.

INSPECTION OF FOOD.

The various workshops, bakehouses, etc., where food is prepared are kept under strict supervision and there have been no cases of food poisoning reported to me during the year.

The amount of food surrendered or condemned as unfit for human consumption is as follows:—

- (a) Tuberculous carcases and parts:—17 Beasts; 10 Pigs; total weight 1,345 lbs.
- (b) Diseased, unsound or unwholesome meat, other than above:—114
 Sheep; 2 Calves; 218 Beasts; and 1 Pig; total weight
 3,453 lbs.
- (c) Other Foodstuffs:—698 Bottles Pickled Cabbage; 26 Sacks (143 cwts.) of Apples.

It was not necessary to institute any legal proceedings.

SALE OF FOOD AND DRUCS ACTS.

Thirty-four samples of milk were purchased by the Inspectors and submitted for analysis.

One vendor was prosecuted in two instances for selling milk, not of the nature and quality demanded, and was fined £2 and costs in both cases.

NUISANCES.

The number of Notices served by the Inspectors was as follows:-

Informal Notices884Statutory Notices396The number of nuisances abated was 908.

Legal proceedings were taken on one occasion owing to a house being kept in a dirty condition. The Magistrates made an Order to abate the nuisance, defendant to pay costs of prosecution.

CLOSETS AND ASHPITS.

The following constitutes the accommodation in this respect at the end of the year in question:—

Pails	
Water Closets 6512	
Waste Water Closets 2462	
Privies 2	
Total	-
New Water Closets fixed	31
Water Closets dismantled	4
Premises with one New Closet fixed	29
Premises with more than one New Closet fixed	1
Pails converted to Water Closets	18
Waste Water Closets converted to Water Closets	9
Baths installed during the year	29
Baths discontinued during the year	1
Urinals installed during the year	3

There are 12 Dry Ashpits and 10,450 portable refuse receptacles, the majority of which are ashes tubs and placed under covered sheds in the yards.

The Corporation under the provisions of a Local Act contribute half cost of conversion of pails to fresh water closet. In new property only fresh water closets are allowed to be fixed.

SMOKE NUISANCE.

The Inspectors took 64 observations, each of one hour's duration, during the year.

It was not necessary to institute legal proceedings but several statutory notices were served upon the occupiers of the mills.

The time limit allowed per hour, for the emission of Black Smoke is as follows:—One, two, or three boilers, 5 minutes per hour. Four or more boilers, 7 minutes per hour.

The Infectious Diseases (Prevention) Act, 1890, has been adopted, excepting Sections 5 to 11 inclusive, and Section 15.

The Public Health Acts (Amendment Act) 1890, has been adopted excepting the Section relating to Music and Dancing.

Certain Sections of the Public Health Acts (Amendment Act) 1907, have also been adopted, also the Darwen Corporation Acts, 1887 and 1898.

STAFF.

Medical Officer of Health: - Frederic George Haworth.

Sanitary Inspectors: --W. E. Marsden and C. R. Walsh.

Health Visitor:—H. H. Shawcross.

HOUSING.

No. of new houses erected during the year:—	
(a) By private enterprise	4
(b) As part of Municipal Housing Scheme	14
No. of houses in course of erection under Council's Building Scheme	12
UNFIT DWELLING-HOUSES	
Inspection—(1) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts)	4432
(2) No. of dwelling-houses which were inspected under the Housing (Inspection of District) Regulations, 1910	207
Have the particulars of these inspections been fully recorded as specified in the Regulations?	Yes.
(3) No. of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	0

(4) No. of dwelling-houses (exclusive of those referred to under (3) found not to be in all respects reasonably fit for human habitation	26
REMEDY OF DEFECTS WITHOUT SERVICE OF FORMAL NOTICE	ES-
No. of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their Officers	17
ACTION UNDER STATUTORY POWERS—	
A.—Proceedings under Section 28 of the Housing, Town Planning, &c., Act, 1919—	
(1) No. of dwelling-houses in respect of which notices were served requiring repairs	0
(2) No. of dwelling-houses which were rendered fit:—	
(a) By owners	0
(b) By Local Authority in default of owners	0
(3) No. of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by owners of intention to close	0
B.—*Proceedings under Public Health Acts.	
(1) No. of dwelling-houses in respect of which notices were served requiring defects to be remedied	103
(2) No. of dwelling-houses in which defects were remedied:—	
(a) By owners	89
(b) By Local Authority in default of owners	0
C.—Proceedings under Sections 17 and 18 of the Housing, Town Planning, &c., Act, 1909.	
(1) No. of representations made with a view to the making of Closing Orders	0
(2) No. of dwelling-houses in respect of which Closing Orders were made	0
(3) No. of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit	3

0	were made	(±)
0	No. of dwelling-houses demolished in pursuance of Demolition Orders	\ /
6	of houses demolished voluntarily by owners, or converted to workshops, etc.	D.—No.

(4) No of dwelling-houses in respect of which Demolition Orders

Notices with regard to drainage and other defects should be included under Sanitary Administration.

Notable Sanitary Improvements during 1921.—None.

Chief Sanitary Requirements of District.—Completion of conversion of Pail Closets to the Water Carriage system.

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE YEAR 1921, FOR THE BOROUGH OF DARWEN,

On the Administration of the Factory and Workshop Act, 1901, in connection with:—

FACTORIES, WORKSHOPS, WORKPLACES AND HOMEWORK.

I.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

		Number of		
Premises.		Written	Prosecu-	
	Inspections.	Notices.	tions.	
Factories (including Factory Laundries).	256	15	• • •	
Workshops (including Workshop Laundrie	es) 532	32		
Workplaces (other than Outworkers' pr	ce-			
mises included in Part 3 of this Repor	rt) 62	8	• • •	
Total	850	55		

^{*} Refers only to action taken in reference to housing defects.

II.—DEFECTS FOUND.

Nuisances	under	the	Public	Health	Acts
1 ulisalices	unuci	THE	1 UDIIC	Health	ACUS :

	Found.	Remedied	Referred to H.M. Inspector.	No. of Prosecutions
Want of cleanliness	9	8		• • •
Want of ventilation	1	1	• • •	• • •
Overcrowding			• • •	• • •
Want of drainage of floors	3	3		• • •
Other nuisances	18	18	1	
Sanitary accommodation—				
Insufficient		• • •	• • •	• • •
Unsuitable or defective	5	5	2	• • •
Not separate for sexes	1.	• • • .	• • •	
Offences under the Factory and Work	shop A	cts :		
Illegal occupation of underground bakehouses (s. 101)		•••	•••	
Breach of special sanitary requirements for bakehouses				
(ss. 97 to 100)	6	6	3	• • •
Other offences (excluding of- fences relating to outwork which are included in Part 3				
of this Report)	• • •	• • •		• • •
Total	43	41	6	• • •

III.—HOME WORK.

	Lists received from Employers. Sending twice in the year.			
Nature of Work.	Lists.	Outwork Contractors.	kers.	
Wearing Apparel—Making, etc	. 4		. 8	
Household Linen	. 2		6	
Total	. 6		12	

IV.—REGISTERED WORKSHOPS.

	Numbe
Textile Factories	64
Non-Textile Factories	48
Factory Workshops	180
Workshops	188
Workplaces	15
Total number of Workshops on Register	495
V.—OTHER MATTERS.	
	Numbe
Matters notified to H.M. Inspector of Factories:—	
Failure to affix Abstract of the Factory and Workshop Acts (s. 133, 1901)	
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Acts (s. 5, 1901)—	
Notified by H.M. Inspector	8
Reports (of action taken) sent to H.M. Inspector	9
Other	* * *
Underground Bakehouses (s. 101) in use at the end of the year	3



METEOROLOGY.

The Meteorological Observatory is at Bold Venture Park in Lat. 53° 41′ 25″ N., and Lon. 2° 28′ 32″ W., and is at an altitude of 728 feet above mean sea level.

Observations are taken twice daily, at 9 a.m. and 9 p.m.

This station is connected with the Meteorological Office, and is called a Normal Climatological Station. A report, giving all details of readings, is sent each month to the Meteorological Office, London.

The total rainfall for the year is 1210.5 millimetres, or 47.65 inches being recorded on 202 days; the average for the last fifteen years being 54.39 inches. The greatest monthly fall was in January, 215.5 millimetres; and the lowest in February, 11.7 millimetres. The greatest daily fall was 35.5 millimetres, on August 5th.

The total sunshine registered on 278 days during the year was 1396.8 hours, being the highest recorded during the last 15 years, the average for this period is 1150.7 hours. July registered the highest monthly total, $\overline{207.6}$ hours; and December the lowest, 16.0 hours. The highest daily reading was 13.9 hours, on June 2nd, 7th, and 28th.

The mean minimum temperature in shade was 42.8°, being above the average for the last fifteen years, which was 40.5°. The lowest monthly mean was in November, 34.9°, and the lowest reading for the year 25.0°, on March 7th.

The maximum wind velocity was on December 3rd, when a south-westerly wind was blowing at the rate of 60 miles per hour.

No observations of calm were recorded, 3 observations of fog, 14 observations of snow, and 15 observations of hail, 4 observations of thunder, 1 observation of lightning, thunderstorm on 6 days, 17 observations of dew, 23 observations of hoar frost, 30 observations of mist, rainbow on 1 day, glazed frost on 1 day.

MEAN METEOROLOGICAL READINGS FOR 1920 AND 1921.

								T	herm	omet	ers.																						
											Ea	rth.											1			,	Vind	Die	ontio	n, 19	.01		
		meter ected	Ma			ini- im.	Mea	ın.	1 F	oot.	4 F	eet.	10 F	eet.	Wa	ter		lu- dity.		shine urs).		ain 1.m)		ind ocity			ma	Dire	CC 110.	п, 19	21.		
MONTH.	1920 ins.	1921 ins.	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	92	1921		N.E	. E.	s.E.	s.	S. W.	W.	N.W	. C
January	29.818	29.870	43 6	48.3	36 3	38.1	39.9	43.2	37.9	41.6	40.5	42.6	43 7	45.3	41.1	43,5	85	87	24.7	20,3	140.9	215.5	14	15	0	2	0	0	16	17	24	3	-
February	30.148	30.310	45,8	43.7	35 8	35.1	40,8	39,4	39.6	40.2	40.5	41.5	42.9	44.2	42.3	41.1	89	82	49.0	55.9	113.3	11-7	15	12	4	1	6	7	15	4	16	3	
March	29.866	29.958	48.9	47.3	35.8	36.4	42.3	41.8	42,2	42.3	41.5	42.0	42,8	43.6	43.6	42.9	85	84	67.6	79.8	148.1	98.0	14	15	2	0	0	0	20	18	21	1	
April	29 690	30.161	47.9	52.3	37.8	36.6	42.8	44.4	45.0	46.3	43.7	44.3	43.2	44.2	44.5	44,4	88	7,6	62 6	174.1	166.0	74.1	13	12	3	10	9	3	2	5	20	8	
May	30.012	29.943	57.6	59.3	42.1	42.0	49.8	50 6	51.6	53.5	47.1	48 3	44.5	45,4	47.9	48.9	sı	76	145.0	183.3	204.3	93.6	11	11	4	5	2	2	14	8	25	2	
June	30 026	30.194	63.7	65.6	46.2	47.6	51.9	56.6	57.9	59.7	51.0	52.8	47.2	48.1	51.5	52.1	79	73	164.7	205.8	90.4	21.6	9	12	2	s	7	. 1	1	2	28	8	
July	29.867	30.043	60.9	64.6	48.4	57.2	54.6	60,9	57 4	64 6	53.9	57.2	49.6	50.8	51.9	55.8	88	73	93.0	207.6	179.0	61.7	11	10	0	2	2	5	11	5	26	11	
August	30.092	29.914	61.1	76.4	48.7	51.1	54.9	63.7	57.2	59.9	54 5	57.1	51.1	53.0	51.7	54.3	82	83	89.3	125.9	91.8	198.0	10	9	3	Ť	1	2	15	8	26	3	
September	30.019	30.120	60.2	63.6	47.2	48.7	53.7	56.1	54.9	57.3	53.7	56.0	51.6	53.6	50.7	52.2	87	80	102,2	160.0	83.9	59.4	10	8	ì	1	7	6	11	6	21	7	
October	29.980	30.143	55.8	60.0	45.0	48.5	50.4	54.2	50,0	53.8	51.3	54.2	51.4	53.1	48.5	51.2	85	81	105.7	98.4	43.7	85.8	11	10	0	0	0	0	27	s	18	9	
November														1					37.8	69.7	68.6	90.0	13	10	1	0	s	19	20	2	3	7	
December	29.993	29.999	42.1	46.8	34.3	37.6	38.2	12 2	38.5	41.8	42.9	44.7	44.1	48.3	42.1	43.8	84	85	19.4	16 0	94.4	201.1	13	12	1	1	5	1	14	7	28	5	
Totals							y								-			_	961 0	1396,8	1424 4	1210.5			21	34	47	46	169	90 2		67	-
Mean	29.962	30 061	53.0	56.0	41.5	42.8	47.2	19.4	17.9	50.2	17.3	49.0	16.8	18 4	16.7	49.5	84	80	80.1	116.4	119.7	100.8	10	11			-	-				-	





REPORT

OF THE

INSPECTORS OF NUISANCES

FOR THE

Year ending 31st December, 1921.



PUBLIC HEALTH OFFICE. DARWEN,

MARCH 22nd, 1922.

TO THE CHAIRMAN AND MEMBERS OF THE HEALTH COMMITTEE.

GENTLEMEN,

I beg to submit my Annual Report of work carried out in the Health Department during the year ending December 31st, 1921.

The District to which the Report refers comprises the Central, South-East, and South-West Wards of the Borough, viz.:—

·	Area in]	Estimated
	Acres.	-	Population.
CENTRAL WARD	110		. 6,314
SOUTH-EAST WARD	1,900		. 6,850
SOUTH-WEST WARD	1,980		6,120

INFECTIOUS DISEASES.

During the year 1921 58 cases of Infectious Diseases were notified against 74 in 1920.

The following table gives a list of cases notified in each of the Wards in 1920 and 1921:—

WARD	Scarlet	Fever	Tvpboid	Fever	1	Dipinmeria	Towns of the second	Liysipelas	Puerperal	Fever	- 0	Consumption	-	Measles	Me.1	Malaria	<u> </u>	rueumonia	Ontholmin	Optualitia	Trees to the 1:4:	racepnanus	Dollows 1115	Foliomyemus
	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920
entral	3	5	0	0	3	3	0	0	1	1	5	7	2	14	0	0	0	0	0	0	0	0	0	0
outh-East	3	9	0	1	3	3	0	3	0	0	10	4.	0	9	2	0	0	3	()	0	2	0	0	0
outh-West	3	5	()	0	0	2	3	1	0	0	3	2	6	1	1.	0	7	1	0	0	0	0	1	0
	9	19	0	1	6	8	3	4	1	1	18	13	8	24	3	0	7	4.	0	0	2	()	1	0

Immediately after the receipt of a notification of a case of infectious disease a visit is at once made to the premises, advice given as to the best means of isolation, and a thorough inspection of the premises made. Subsequent visits are paid to see that isolation, etc., is being carried out. On removal to Hospital or recovery of a patient at home the premises are disinfected, usually by means of sulphur candles or formaldehyde tablets, the bedding and other articles being removed to Hospital and there disinfected.

During 1921 46 rooms were disinfected and the following is a list of bedding, etc., removed for disinfection:—

Central South-East South-West	spag 6 7 3 16	sessentiam 2 0 2	5 7 3 15	smollid 10 12 2	3 4 1 8	Slankets 7 5 0	Sheets 1	O O Suits of Clothes	O O Carpets	O O Bugs	0 0 Cushions	O O Shawls	Sandries 6	16 36 16 88 —
Previous years—														
1920	65	9	50	69	43	. 50	16	1	0	0	0	5	107	415
1919	41	4	22	54	28	28	6	0	0	0	0	0	48	231
1918	74	2	4 8	76	4 6	60	23	1	4	0	0	3	77	414
1917	55	12	38	64	52	58	16	1	0	1	5	2	71	375
1916	76	16	58	83	67	67	21	3	0	1	1	2	55	450
1915	103	33	92	106	70	115	27	1	3	7	6	7	136	706
1914	88	19	73	94	75	125	26	1	3	1	5	12	77	590
1913	45	18	30	49	22	21	9	0	6	8	2	6	15	227

NUISANCES.

The number of complaints received during 1921 was 149, being 20 less than the previous year. These complaints were spread over the three Wards and were comprised chiefly of choked gullies, defective pails, accumulations of refuse, etc. In all cases the nuisances were abated as early as possible.

Forty-eight agreement forms for alterations to drains converting pail closets, opening choked W.W.C.'s, etc., were signed and the work carried out by the Highways Department.

CONVERSION OF CLOSETS.

Although no legal notices were served to convert pail closets during 1921, the following were converted at request of owners:—

- 10 Pail Closets converted to W.C.'s.
 - 7 Waste Water Closets converted to W.C.'s.

The following Table gives a list of Inspections, notices served and result, as required to be furnished to the Medical Officer of Health under Article 20, Sec. 16, of the Sanitary Officers Order of 1910:—

	Number		ber of Served.	Res	ult of Se	rvice of No	tices.
Nature of Inspections.	of Inspec- tions.	Legal.	Prelim-	ces	Remain- ing in		
			inary.	abated.	hand.	Instituted.	Pending
Dwelling Houses	1918	205	381	326	73		
Houses under Housing, &c., Act	177	• • •	• • •	•••	• • •	• • •	• • •
Factories and Workshops	364	15	24	14	1	• • •	
Bakehouses		6	9	5	1	• • •	• • •
Dairies and Cowsheds	153	21	39	50	8	• • •	• • •
Smoke Observations	28	• • •	• • •	• • •	• • •	• • •	• • •
Infectious Diseases	32	• • •	• • •	• • •			•••
Nuisances-							
Defective Drains	35	10	30	32	3	• • •	
Defective Slop Gullies	16	10	15	11	5	• • •	• • •
Defective W.C.'s		5	8	10	• • •	• • •	
Defective Easing Troughs, &c	122	49	102	104	18	• • •	
Insanitary Yards		1	2	2	• • •	• • •	
Dirty Houses and Premises	4.1	20	38	36	5	• • •	
Dilapidated Closets		6	7	6	2	• • •	
Accumulations of Refuse		20	38	31	9	• • •	
Nuisances from Animals	4.	2	4	4	• • •	• • •/	• • •
Nuisances from Manure Pits	1	1	1	1		• • •	• • •
Ashtubs without Covers	8	5	7	6	2		• • •
Broken Slop Pipes	25	16	23	18	7		0.0
Choked W.W.C.'s		10	13	15			
Broken Ashtubs	5	3	4	3	2		
Insanitary Pails	13	6	12	10	3		
Defective Roofage	1	2	2	3	• • •		
Defective Windows, &c		5	5	5	1		
Defective Closet Recep. Doors		10	30	22	14	• • •	
Miscellaneous		7	7	7	2	• • •	

FACTORY AND WORKSHOP ACTS.

Three hundred and sixty-four Inspections were made to Factories and Workshops under the Acts, and the workshops were found to be in a fairly sanitary condition. Special attention was paid to Bakehouses and places

were food was prepared, and under this heading 170 inspections were made. In one case complaint was made to the Committee and the premises were afterwards inspected by H.M. Inspector, the Medical Officer of Health, and myself, and the nuisance abated.

The following is a summary of Inspections:—

FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES, AND HOMEWORKERS' PREMISES.

I.—INSPECTIONS.

Number of

Notices

Inspec-

	tions.	W	ritten.
Factories, including Factory Laundries	. 200	·	9
Workshops, including Workshop Laundries	$2\bar{8}4$		12
Workplaces, Homeworkers' Premises	. 50		6
		Cultural Control	
NUISANCES UNDER PUBLIC HEA	ALTH A	ACT.	
II.—DEFECTS FOUND.			
		ber of Defe Ren	
Want of Cleanliness	. 5		4
Want of Ventilation			
Overcrowding			
Want of Drainage to Floor	. 1		1
Sanitary Accommation—			
Insufficient			
Unsuitable or Defective	. 2		2
Not Separate for Sexes			
REGISTERED WORKSHOP	PS.		
			No.
Textile Factories			
Non-Textile Factories			
Factory Workshops			137

OTHER MATTERS.

Matters notified to H.M. Inspector of Factories	9
Action taken in matters referred by H.M. Inspectors as remediable	
under the Public Health Acts but not under the Factory and	
Workshop Act (Sec. 5)	2
Notified by H. M. Inspector	4
Reports (of action taken) sent to H.M. Inspector	differenceshilds
Underground Bakehouses (S. 101) in use at end of year	2

DAIRIES AND COWSHEDS.

One hundred and fifty-three Inspections were made to Farms and Dairies during 1921, the whole of the Farms being in South-East and South-West Wards.

The general cleanliness of the Cowshed premises, dairies, etc., were satisfactory.

Notices were served to abate the nuisances as under with result:—

No. of Nuisances, etc.,	No. of Nuisances, etc.,
Not	Not
. Abated. Done.	Abated. Done.
Defective Drains 8 2	Defective Windows 2 —
Defective Gullies 7 —	Defective Ventilation 1 —
Insanitary Yards 4 1	Defective Shippon Floors 2 —
Defective Downspouts 13 2	Defective Slop-pipes 1 —
Defective Roofage 3 —	Insanitary Manure Pit — 1
Insanitary Closets 1 —	Limewash and Cleanse 7 1
Defective Water Supply. 1 1	

Copies of Bye-laws and Regulations made under the Dairies and Cowsheds Order were distributed amongst the Farmers.

Nine new registration forms were issued to new Cowkeepers and transfers.

BLACK SMOKE.

Owing to the continued stoppage amongst the mills only 28 Smoke Observations were taken during 1921 as against 59 during 1920. The average amount of Black Smoke per Observation was $2\frac{3}{4}$ minutes per hour.

The limit of five minutes per hour was not exceeded.

HOUSING AND TOWN PLANNING ACT.

THE HOUSING (INSPECTION OF DISTRICT) REGULATIONS, 1910.

SUMMARY UNDER ARTICLE V. OF ACT.

17.7	No, of Dwellings Inspected under Sec. 17	1.
0	No. of Dwelling-houses which, on inspection, were considered to be in a state so dangerous and injurious to health as to be unfit for human habitation	2.
0	No. of representations made to the Local Authority with a view to making of Closing Orders, Sec. 17 (2)	3.
0	No. of Closing Orders made, Sec. 17 (2)	4.
0	No. of Dwelling-houses, the Defects of which were remedied without making the Closing Orders	5.
2	No. of Dwelling-houses which, after making the Closing Orders, were put in a fit state of human habitation	6.
0	No. of Dwelling-houses in respect of which Demolition Orders were made	7.

SHOP HOURS' ACT, .

During 1921 I paid 60 inspections (nightly) under the Early Closing Act, 1920.

Several applications were made for Half-Holiday Closing and Earlier Closing of Shops which necessitated the visiting of all shops included in the applications, viz.:—

Chip and Fish Dealers	57
Butchers	43
Drapers and Milliners	124
Tailors and Clothiers	19
Outfitters	7

Several shopkeepers were reported to the Committee for selling after hours and prosecution followed, viz.:—

		t.)	S.	d.
Selling	Curtains, etc., after 8 p.m	Fined	0	10	0
Selling	Ornaments	Fined	1	0	0
Selling	Boiled Ham	Fined	0	10	0
Selling	Cigarettes	Fined	0	5	0
Selling	Groceries	D	isn	niss	ed.

SALE OF FOOD AND DRUG ACTS.

As Inspector under the above Act I purchased four samples of Milk all of which were found to be genuine.

INSPECTION OF FOOD.

The fish and fruit markets are continually under observation and periodical inspections are made of premises where food is prepared for human consumption.

Twenty-six sacks of apples, weighing $14\frac{3}{4}$ cwts., and 698 bottles of Red Cabbage were condemned as unfit for food.

Supplementary reports on Schools, Dairies and Cowsheds, Insanitary Property, etc., have been submitted to the Health Committee each month during the year, together with recommendations for the serving of statutory notices, etc., under the various Public Health Acts.

I am, Gentlemen,

Your obedient servant,

WILLIAM E. MARSDEN, M.S.I.A., C.R.S.I.,

Senior Sanitary Inspector.

PUBLIC HEALTH OFFICE, DARWEN.

FEBRUARY, 1922.

NORTHERN DISTRICT.

TO THE CHAIRMAN AND MEMBERS OF THE HEALTH COMMITTEE.

GENTLEMEN,

The following is a brief summary of the work carried out by me during the year ending December 31st, 1921. The district is comprised of North-East, North-West, and West-Central Wards. During the year 16 new houses were erected and certified in North-West Ward. Four back to back houses in Union and Back Union Street were voluntarily closed and are used as workshops.

The following table shows the number of houses, etc. :-

-	Houses, 1921	Estimated Census Population 1921	Estimated Number of Houses under £16 rental, Sect. 14, H. & T. P. Act, 1909.
West Central Ward	940	3474	548
North-East Ward	2320	9013	1751
North-West Ward	1960	6948	929
		Brend Aryani od od Administrativa samong	
•	5320	19435	3228
		Subministrative control and the second	Spatial Advice Translation and purpose recognized

HOUSING CONDITIONS.

Total number of Houses inspected for housing defects (under Public Health or Housing Acts)	2514
Number of Dwelling-houses which were inspected under the Housing (Inspection of District) Regulations, 1910	30
Number of Dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	0
Number of Dwelling-houses (exclusive above mentioned) found not to be in all respects reasonably fit for habitation	26

REMEDY OF DEFECTS WITHOUT SERVICE OF FORMAL NOTICES.

Nui	mber of defective Dwelling-houses rendered fit in consequence of informal action by the Local Authority or their Officers	17
	B.—PROCEEDINGS UNDER PUBLIC HEALTH ACTS.	
1.	Number of Dwelling-houses in respect of which notices were served requiring defects to be remedied	26
2.	Number of Dwelling-houses in which defects were remedied:— (a) By Owners (b) By Local Authority in default of owners	17
(C.—PROCEEDINGS UNDER SECTION 17 AND 18 OF THE HOUSING AND TOWN PLANNING ACT, 1909.	G
1.	Number of representations made with a view to the making of closing orders	0
2.	Number of Dwelling-houses in respect of which closing orders were made	0
3.	Number of Dwelling-houses in which closing orders were determined,, the Dwelling-houses having been rendered fit	1
4.	Number of Dwelling-houses in respect of which demolition orders were made	0
5.	Number of Dwelling-houses demolished in pursuance of demolition orders	0
D	—Number of Houses demolished voluntarily by owners or converted	

DIRTY HOUSES.

4

to workshops

In the monthly reports submitted to Committee, details were given of certain Houses situated in Exchange Street, Dove Street, Bury Square, William Street, Hutchinson Court, Union Street, which were found to be in a very filthy condition. Preliminary and ultimately statutory notices were served upon the occupiers. On February 24th the occupier of the house 15, William Street, was prosecuted and an order to abate the nuisance, with costs, was obtained, ultimately the whole of the rooms, etc., were cleansed to my satisfaction.

INFECTIOUS DISEASES NOTIFIED.

WARD	Scarlet	Fever	Pnommonia	rneumonia	T 1. 11	Diphtheria	Tammalac	Erysipelas	Onthalmia	Neonatorum		Malaria	T. Land Jeig	Tubercalosis	Trench	Eever	Typboid	Fever	Encephalitis	Lethargica	Measles and German	Measles	Descontony	Dysemery	Puerperal	Fever	Cerebro-	Spinal Meningitis	
	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	1920	1921	The second
West Central	2	5	1	0	0	2	2	0	0	0	2	0	4.	4	0	0	1	1	0	Ũ	21	1	0	0	0	0	0	1	3
North-East	12	3	2	0	3	2	1	2	2	0	0	O	6	6	0	1	0	0	0	0	32	2	U	0	1	0	0	0	5
North-West	3	7	1	0	3	0	0	0	0	0	0	0	6	3	0	0	0	0	0	1	30	2	0	1	0	0	O	0	4
Total	17	15	4	0	6	4	3	2	2	0	2	0	16	13	0	1,	1	1	0	1	83	5	0	1	1	0	0	1	13

Immediately upon receipt of notification of the existence of cases of infectious disease, I visited the houses and ascertained if the patients were properly isolated. I also made a thorough examination of the premises. Any defects discovered in the drainage or sanitary arrangements I caused to be remedied as quickly as possible. Nine of the patients suffering from Scarlet Fever were removed to the Bull Hill Hospital. At the termination of each case of infectious disease, the rooms were thoroughly cleansed and disinfected, and the bedding, etc., removed to Bull Hill Hospital and disinfected in the Super-heated Steam Disinfector.

During the year 16 loads of bedding, etc., were disinfected.

CENERAL INSPECTION OF DISTRICT.

In accordance with your instructions and the general order of the Local Government Board, I have endeavoured, by systematic inspection, to keep myself informed in respect of any nuisance existing in the district as the following summary will show:—

Total number of Nuisances discovered	463						
Letters written respecting Nuisances							
Preliminary Notices served respecting Nuisances	427						
Statutory Notices served respecting Nuisances							
Number of Re-inspections	1964						
,, Nuisances abated (including outstanding nuisances)	513						
,, Houses and Premises inspected	2540						
,, Inspections of Refuse Tips	73						
,, Inspections of Schools, etc.	65						

Complaints	received and	investigated	142
Number of	Drains, Water	Closets, etc., Tested	29
, ,	Smoke Observ	vations Taken	36
,,	Inspections of	f Factories and Workshops	192
, ,	,,	Lodging Houses	54
, ,	,,	Bake-Houses	124
2.2	Samples purc	hased (Sale of Food and Drugs Acts)	30

NORTHERN DISTRICT.

Noture of Ingrestions		Number	Notices	Served.	Vininganoon	Nuisances	Prosecutions
- New Application	Number and Nature of Inspections made.	Inspections.	Legal.	Preliminary	Nuisances Abated.	remaining in hand.	instituted
A STATE OF THE PERSON NAMED IN	Owelling Houses	2514	149	427	513	51	•••
Topon Contract	Owelling Houses (under Town Planning Act	26					
1000	Schools and Public Buildings	1	• • •	• • •	• • •	• • •	• • •
	Factories and Workshops	1	21	21	20	1	9
i	Dairies and Cowsheds	1	$\frac{24}{24}$	24	18	6	• • •
	Smoke Observations		3	3	3		• • •
	Bakehouses	1 401	7	7	7		• • •
W.	Lodging House	.					• • •
	Refuse Tips		• • •				
	NECTIOUS DISEASES—						
	Cases Visited	44			• • •	0 0 4	
	Rooms Disinfected						
	Loads of Bedding Removed						
	Nuisances-	Discovered					
	Defective Drains	20	12	20	17	3	
	Slop Gullies	1 , -	3	15	14	1	• • •
	Cail Dinos W C's etc		16	43	38	5	• • •
	Troughs & Downspouts	92	36	80	80	12	
	Insanitary Yards		2	10	9	1	
	Dirty Houses, etc		10	10	10	0	1
	Dirty Closets		0	8	8	0	• • •
,	Accumulation of Refuse	. 75	6	75	70	5	•••
	Nuisance from Animals	. 7	1	7.	7	0	•••
	Dangerous Buildings	11	6	6	8	3	•••
	Ashtubs without Covers	.] 23	6	23	20	3	• • •
1	Broken Slop Pipes	. 43	16	43	40	3	•••
	Choked Waste Water Closets	. 37	4	35	32	5	•••
2	Insufficient Ventilation of Room	$ \mathbf{S} = 20$	15	20	18	$\frac{2}{2}$	•••
	Dirty Bedding	. 5	5	5	5 6	0	• • •
	Choked Sewers	. 6	0	$\frac{6}{10}$	$\frac{0}{23}$	0	• • •
	Burst Water Pipes	23	0	$\frac{12}{2}$	1	0	. • • •
,	Defective Gas Pipes	3	$\frac{0}{c}$	3	3	0 8	• • •
1	Miscellaneous		6	6	1 4	8	
-	3						

BLACK SMOKE NUISANCE.

Thirty-six observations were taken, each one hour's duration. There was a depression in the Cotton Trade during the year, several mills worked intermittently.

The following Time Limit is in force in the Borough:-

In three instances the Time Limit was exceeded and Statutory Notices were served upon the occupiers of the respective mills.

The following Table of Analysis of Observations shows the average amount of Black Smoke emitted in minutes per hour during the last 10 years—

1921	1920	1919	1918	1917	1916	1915	1914	1913	1912
2.73	3.40	3.0	2.70	2.24	2,36	2.60	2.08	2,11	1.91

Advantage has again been taken of the opportunity afforded by the mills being closed, owing to depression in trade, to carry out repairs of boilers, economisers, stokers, etc. At 15 mills the boilers are hand fired.

At 30 of the mills mechanical stokers of various kinds are in use and there are 68 boilers at the various works.

FACTORIES AND WORKSHOPS.

I.—INSPECTION.

•	Numbe	r of
Premises.	Inspec-	Written
	tions.	Notices.
Factories	. 56	6
Workshops	. 124	14
Workplaces	. 12	2
Bakehouses	. 124	6
Total	. 316	28

NUISANCES UNDER PUBLIC HEALTH ACTS.

II.—DEFECTS FOUND.

	Number of De	
Want of Cleanliness	ound.	
,, Ventilation	1	4
,, Drainage of Floors	2	1
	11	2
	-	11
Sanitary Conveniences—		
Unsuitable and Defective	3	3
Not Separate for Sexes	1	0
Breach of Special Sanitary Requirements (S.S. 97 to 100)	6	6
III.—OTHER MATTERS.		
Matters Notified to H.M. Inspector of Factories	S :	
Action taken in matters referred by H.M. Inspectounder Public Health Acts (notified by H.M. I		
Reports of action taken sent to Inspector	• • • • • • • • • • • • • • • • • • • •	5
Certified underground Bakehouses in use at end of	year	1
IV.—REGISTERED FACTORIES AND WO	RKSHOPS, ETC	S.
		Number.
Textile Factories		33
Non-Textile Factories		36
Factory Workshops		43
Workshops		185
Workplaces		15
		312

Four Lists of outworkers making and repairing wearing apparel were supplied to me during the year in compliance with regulations.

LIST OF FACTORIES, FACTORY WORKSHOPS, WORKSHOPS, ETC.

Textile Cotton Factories	33	Picture Framing	7
Joiners and Builders	10	Boots and Shoes	30
Paper and Paint Mills	6	Chipped Potatoes	22
Engineers and Foundries	9	Ice Cream	1
Printers	5	Dressmakers, etc.	33
Gas and Electricity Works	2	Hay and Straw Dealers	2
Waste Sorting Works	4	Motor Repairing	5
Rope Works	1	Livery Stables	1
Aerated Water Works	2	Tailors	8
Box Making	2	Baking Powder Maker	1
Reed Works	1	Tin Plate Works	3
Slay Makers	1	Scales and Weights	2
Wheelwrights	5	Saddlers	3
Firewood Making	1	Plumbers	6
Pork Butchers	4	Blacksmiths	3
Destructor Works	1	Tripe Dressing	2
Wringing Machine Works	1	Cabinet Makers	3
Bakers and Confectioners	66	Marine Stores	3
Wholesale Grocers	3	Stocking Knitting	1
Brush Maker	1	Electrical Engineers	2
Tea Mixing	1	Watch Repairing	4
Painters' Preparation Workshops	6	Flock Bed Dressing	1
Polishing Paste	1	Pickle Making	1
Paper Bags	1	Chocolate Making	1
Herb Beer Making	1	Monumental Mason	1

DAIRIES, COWSHEDS, AND MILKSHOPS.

There are 36 farms, with 67 shippons, in the Northern District. No dairy cows have been kept during the year at Holly Bank, Hawkshaw, and Lower Trees Farms. A few of the farms are used chiefly for rearing young stock. About 500 cows are stalled in the shippons, in addition to young stock and oxen. Improvements were carried out under the Dairies, Cowsheds, and Milkshops Regulations, as follows:—

Shippon and Yard Pavement Relaid or Repaired	3
Lighting and Ventilation of Shippons Improved	3
Drains Reconstructed or Repaired	1
Repairs to Watering Trough	1

New Easing Troughs and Downspouts Fixed	4
Dirty Shippons Limewashed	13
Repairs to Roofage of Shippons	3
Repairs to Dairy	1
Keeping Swine too near Dwelling-house	1

Many repairs of a minor nature were also carried out.

I have continued to watch carefully the water supplies at the various farms.

Copies of the Dairies, Cowsheds, and Milkshops Regulations have again been supplied to each farmer and purveyor of milk.

INSPECTION OF SCHOOLS.

Many Inspections of the 13 Elementary Schools were made, particularly during the vacations, viz., Easter, Mid-Summer, and Christmas, to survey the buildings and ascertain if the cleaning had been done in accordance with your requirements, as issued prior to each vacation by Mr. W. Bretherick, Secretary of Education. I found the work done in accordance with instructions. Defects in the buildings, drainage, and pavement of vards were referred to the Education Department for attention. Many defects were remedied.

TRIPERIES.

The waste material from the works is removed daily and cremated at the Destructor, and great care is exercised to avoid effluvia nuisances. I visit the works daily.

There is one gut scraper in the town, and his workshop, which is well kept, is situated at the Public Slaughter-Houses.

SALE OF FOOD AND DRUCS ACTS, 1875 TO 1907.

During the year I purchased thirty samples of milk and forwarded them to the County Analyst for examination. Twenty-five samples were found to be genuine. The following samples proved to be deficient as follows:—

RESULT OF ANALYSIS.

				Other	
Sample	No. M	ilk Fat	Mil	k Solid	ls Remarks.
	pe	er cent	. pe	r cent.	
46		2.48		9,14	17 per cent. insufficiency in Milk Fat.
47		2.51		9.14	16 per cent.
8		2.53		9.18	15 per cent.
10		2.98	• • • • • • • •	9.27	Slightly deficient in Milk Fat.
13		2.50		9.61	16 per cent. deficient.

Legal proceedings were instituted in two instances, the Magistrates fined the Vendor £2 and costs in each case.

I have continued to keep a sharp outlook over the various articles of food offered for sale for human consumption in the district. The butchers shops are regularly visited.

MODEL LODGING HOUSE.

During the year there has been a decrease of 9.26 in the number of lodgers when compared with 1920, owing to a depression in trade. This is the only common lodging house in the town, a distinct advantage from a public health standpoint. I frequently visited the house, often in the evening, after the lodgers had retired to rest, when the number of cubicles occupied were checked and the books examined.

The following Table shows the average number of occupants for each month during the last 12 years:—

]	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921
Jan	70.2	75.2	72.1	111.3	121.0	84.6	65.3	59.1	53.04	59.12	70,20	94.51
Feb	76.2	64.1	77.1	125.2	126.6	86.9	69.1	61.2	54.82	57.90	81.30	92.03
March	70.2	80.4	953	127.2	125.6	85.5	67.2	66.3	53.58	59.90	79.30	90.58
April	79.2	86.5	102.6	127.4	129.4	109.2	67.2	68.2	57.77	64.27	91.60	89.16
May	79.2	78.0	96.0	126.2	127.2	88.2	53.1	66.9	54.35	68.70	93.30	79.16
June	78.1	71.5	86.1	131.8	122.3	84.1	50.7	62.2	55.37	72.00	101.83	78.86
July	78.7	69.2	77.1	130.1	124.1	75.7	53.1	60.0	51.26	67.24	100.12	76.77
August	72.1	70.2	91.5	132.9	108.1	73.2	62.1	57.2	48.00	69.23	106.00	76.51
Sept	70.2	79.2	104.2	123.1	91.1	66.1	60.2	56.7	53.93	71.24	95.16	69.63
October	72.6	82.1	113.5	128.1	94.2	58.1	60.6	57.7	54.90	74.17	89.05	67.90
Nov	79.6	79.1	109.1	124.2	87.2	61.2	60.0	54.7	56.47	71.70	84.60	72.83
Dec	78.2	75.2	108.9	122.4	79.2	64.9	61.1	51.7	59.19	68.15	88.79	81.22
Average	75.3	77.5	94.4	125.8	111.3	78.1	60,8	60.0	54.39	66.97	90.02	80.76

MANURE PITS.

I made an inspection during the months of June, July and August, of the 34 Midden Steads in use in the Northern District, and caused the pits to be emptied weekly. Everything possible was done to mitigate the nuisance caused by flies.

OTHER MATTERS.

At each monthly meeting of the Health Committee, in addition to the printed report, I have submitted a detailed type-written statement of the work carried on in my district.

During the month of May I took samples of water from the Earnsdale and Sunnyhurst service reservoirs and forwarded them to the County Analyst. (See result in Medical Officer's Report.)

I am pleased to say that the service of Preliminary and Legal Notices had the effect of securing the abatement of nuisances, and it was only necessary to institute legal proceedings in one case.

Agreement Forms have been signed by owners of property for the Corporation workmen to carry out repairs, etc., to back yards, drains, etc.

This work has been done under my supervision.

I am, Gentlemen,

Yours obediently,

C. R. WALSH, M. R. San. Inst., &c.,

Sanitary Inspector, &c.



THE ABATTOIRS,

POLICE STREET, DARWEN.

SLAUCHTER-HOUSE REPORT, 1921.

To the Chairman and Members of the Slaughter-House Committee.

GENTLEMEN,

During the period covered by this report (January to December, 1921) the animals passing through the Abbatoirs were examined both before and after slaughter. Several pigs were killed at farms in the district and many beasts accidentally injured were conveyed to the Abattoirs and slaughtered under my supervision (sometimes in the evening). Consignments of fresh meat have been received from Blackburn and Wilpshire, and passed through our slaughterhouses. Quantities of frozen and chilled meat have been imported into the town.

Some of the retail butchers obtain their supplies from Blackburn wholesale dealers, necessitating inspection in the retail shops.

During the month of June, owing to an outbreak of Foot and Mouth Disease, movement of live cattle was restricted and animals were slaughtered at the ports and the carcases conveyed to the Abattoirs.

NUMBER OF ANIMALS SLAUGHTERED AT THE PUBLIC AND PRIVATE ABATTOIRS.

	BEA	ame .	SHEEL	P AND	PIGS	CALVES		TOTAL	
	BEASTS. Public Private		Public Private		Public	Public Private		Public Private	
January	92	58	404	321	46	3	3	545	382
February	76	53	346	311	39	1	6	462	300
March	40	68	277	283	81	5	9	403	360
April	45	25	277	221	44	0	14	366	260
May	46	22	323	249	34	0	12	403	283
June		9	348	66	31	2	3	391	78
July		45	446	402	11	0	5	498	452
August		55	326	445	34	18	4	426	504
September		50	459	416	37	4	4	548	470
October		68	958	604	96	18	11	1148	683
November	96	. 78	940	608	110	23	6	1169	692
December	56	60	544	478	212	4.	2	816	540
Total 1921	674	591	5648	4334	775	7 8	79	7175	5004
Total 1920	1234	706	5206	2466	695	469	1.5	7604	3187

The above Table shows a decrease of 1,388 in the number of animals slaughtered when compared with the preceding year. This was largely owing to the restrictions enforced by the Board of Agriculture during the month of June, prohibiting the movement of live cattle. During this period the animals were slaughtered at the ports, and the carcases conveyed to the Abattoirs.

During the year 362 carcases required special examination; 27 were affected with Tuberculosis in varying degrees. All affected parts were condemned and destroyed.

One cow and seven sheep were condemned and destroyed for other causes than Tuberculosis.

The total amount condemned and destroyed during the year was 4,798lbs. for causes as follows:—

Beasts		Nun Sheep	nber	exami Calves		Pigs			ght in lbs.
17						10		Tuberculosis	1345
Wildelike viranneng		***************************************		2				Immaturity	30
—		2		***************************************		Milliother of community		Asphyxiated	74
		1						Drowned	52
-		. 1						Enteritis	46
1		···		-		Military and Comments		Parturition	500
.23		9						Injuries	878
		1				-	. • • •	Pleurisy	35
1		***************************************	• • •					Abscess	8
74						1		Bruised Meat and Unsound	750
1	• • •		• • •					Mastitis	40
4		***************************************	• • •		• • •			Cirrhosis of Liver	40
72		100	• • •				• • •	Liver Flukes	580
42	• • •				• • •			Other Causes	420
235	-	114		2		11			4798

I am, Gentlemen,

Yours respectfully,

C. R. WALSH, M. R. San. Inst.,

Certified Inspector of Meat and Other Foods.

SUPERINTENDENT'S OFFICE, CLEANSING DEPARTMENT.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I beg to submit to you my Annual Report for the year January 1st to December 31st, 1921.

The following is a Summary of Work done:-

House Refuse to Destructor House Refuse to Rosehill Tip Market Garbage to Destructor	Tons. 14042 761 223 15027	Cw 1	9 2 7	Ors. 2 0 0
Ton	s. Cwts.	Qrs.		
Clinkers removed by motor from Destructor 57	782 6	1	1491	Loads.
Clinkers removed by carts from Destructor	42 11	0	37	,,
Sweepings to various tips			2036	,,
Sweepings deposited by hard-carts at Destructo			2684	5,
Gully Wreck to various tips			999	,,
Street Gullies emptied			23166	,,
Length of Streets swept by hand			$2757\frac{1}{4}$	Miles
Excreta to Sewage Works			2013	Loads.
Excreta Pails emptied			88572	
Ashes Tubs emptied			345916	
Ashpits emptied			550	
Water deposited on streets			1082	Loads.
Snow removed from streets			566	, ,
Ashes Tubs added during the year			46	
Pails brought in from closet conversions			17	

Yours obediently,

JOSEPH NICCOLL,

Cleansing Superintendent.

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